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1	STATE OF NEW MEXICO
2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
4	CASE 9920, CASE 9921
5	
6	EXAMINER HEARING
7	
8	IN THE MATTER OF:
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10	Application of Sirgo Operating, Inc., for an
11	Unorthodox Oil Well Location, Lea County, New
12	Mexico; Application of Sirgo Operating, Inc., for
13	Two Unorthodox Oil Well Locations, Lea County, New
14	Mexico
15	
16	TRANSCRIPT OF PROCEEDINGS
17	
18	BEFORE: MICHAEL E. STOGNER, EXAMINER
19	
20	STATE LAND OFFICE BUILDING
21	SANTA FE, NEW MEXICO
22	April 18, 1990
23	
24	
25	

APPEARANCES 1 2 FOR THE APPLICANT: 3 4 CAMPBELL & BLACK, P.A. Attorneys at Law WILLIAM F. CARR 5 By: Suite 1 - 110 N. Guadalupe P.O. Box 2208 6 Santa Fe, New Mexico 87504-2208 7 * * * 8 INDEX 9 Page Number 10 2 Appearances 11 Exhibits 2 12 JAMES WALSH FRICK 13 Examination by Mr. Carr 6 14 Examination by Mr. Stogner 22 15 Certificate of Reporter 16 26 17 + + EXHIBITS 18 19 **APPLICANT'S EXHIBITS:** Exhibit 1 10 20 Exhibit 2 13 21 Exhibit 3 15 22 Exhibit 4 17 23 Exhibit 5 17 24 * * * 25

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1	WHEREUPON, the following proceedings were had
2	at 2:42 p.m.:
3	EXAMINER STOGNER: I'll now call Case Number
4	9920, which is the Application of Sirgo Operating,
5	Incorporated, for an unorthodox oil well location, Lea
6	County, New Mexico.
7	I'll call for appearances.
8	MR. CARR: May it please the Examiner, my
9	name is William F. Carr with the law firm Campbell and
10	Black, P.A., Santa Fe. We represent Sirgo Operating,
11	Inc., and I have one witness.
12	At this time I would request that this case
13	be consolidated for purposes of hearing with Case 9921,
14	which is also an Application of Sirgo for two
15	unorthodox well locations in the same general area.
16	EXAMINER STOGNER: If there are no
17	objections, I'll call Case Number 9921, which is the
18	Application of Sirgo Operating, Incorporated, for two
19	unorthodox oil well locations, Lea County, New Mexico.
20	Are there any other additional appearances
21	besides Mr. Carr for the Applicant in either of these
22	matters?
23	Okay, Mr. Carr?
24	MR. CARR: May it please the Examiner, before
25	we begin, in Case 9920 we have requested and the

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1	Division has advertised an unorthodox location for the
2	East Pearl Queen Unit Well Number 84. The ad provides
3	that it will be 165 feet from the south line.
4	We have encountered a problem with the land
5	owner who has a stock pen at that point and has
6	requested that we move that well location. We have
7	agreed to move it 100 feet to a point 265 feet from the
8	south line. That moves it toward a standard location
9	from the location that was advertised.
10	With your permission, we would request that
11	we be permitted to amend the Application to move back
12	to a standard location, thereby accommodating this land
13	owner.
14	EXAMINER STOGNER: Okay, which well? I'm
15	sorry.
16	MR. CARR: It is the well in Case 9920, and
17	it is the East Pearl Queen Unit Well Number 84. It was
18	advertised 165 feet from the south line. We would like
19	to move that to 265 feet from the south line, and
20	that's toward a standard location.
21	EXAMINER STOGNER: And that would still be
22	ten feet from the west line?
23	MR. CARR: Yes, sir.
24	EXAMINER STOGNER: Are there any other
25	amendments to either of the other two wells?

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1	MR. CARR: No, sir. We have an error in one
2	exhibit, but we are asking exactly, other than that
3	change, for what has been advertised, and we'll call
4	that out when we get to it.
5	EXAMINER STOGNER: Okay, this amendment will
6	not lead or require a need for a readvertisement,
7	since it is moving to a less unorthodox location.
8	However, Mr. Carr
9	MR. CARR: Yes, sir.
10	EXAMINER STOGNER: this has happened a
11	couple of times in administrative orders. I am going
12	to request that Sirgo make sure that the locations that
13	they ask for either administratively or at a hearing be
14	drillable locations.
15	MR. CARR: Okay.
16	EXAMINER STOGNER: Okay, Mr. Carr?
17	MR. CARR: At this time we would call Mr.
18	Frick.
19	EXAMINER STOGNER: Let's see, I guess we need
20	to swear the witnesses in. How many witnesses have you
21	got?
22	MR. CARR: I have one witness.
23	EXAMINER STOGNER: Okay, will the witness
24	please stand to be sworn?
25	(Thereupon, the witness was sworn.)

1	EXAMINER STOGNER: Thank you, you may be
2	seated.
3	Mr. Carr?
4	JAMES WALSH FRICK,
5	the witness herein, after having been first duly sworn,
6	upon his oath, was examined and testified as follows:
7	EXAMINATION
8	BY MR. CARR:
9	Q. Would you state your full name for the
10	record, please?
11	A. James Walsh Frick.
12	Q. Mr. Frick, where do you reside?
13	A. In Houston, Texas.
14	Q. How are you employed, and in what capacity?
15	A. I'm a consultant, and I'm employed as a
16	consultant for Pyramid Energy, Incorporated.
17	Q. What is the relationship of Pyramid Energy to
18	the Applicant, Sirgo Operating, Inc.?
19	A. Pyramid Energy recently acquired properties
20	from Sirgo Operating Company, and I represent Pyramid
21	Energy, and Sirgo Operating Company is now the operator
22	of these properties.
23	Q. Are they a contract operated for Pyramid?
24	A. That's correct.
25	Q. Have you previously testified before the New

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1	Mexico Oil Conservation Division?
2	A. No.
3	Q. Would you briefly review for Mr. Stogner your
4	educational background and then summarize your work
5	experience?
6	A. I'm a graduate petroleum engineer. I
7	graduated from the University of Tulsa in 1947.
8	I started working for Texaco in 1941 as an
9	engineering clerk. I worked for them through the years
10	as a about six years as a field engineer and some 28
11	years as a reservoir evaluation engineer, of which the
12	last ten years with them was in a research lab. I was
13	their reservoir engineer in reviewing enhanced oil
14	recovery projects.
15	Since leaving Texaco or retiring in 1979,
16	I've worked for Core Laboratories, Incorporated, one
17	year as a consultant, evaluating properties for them.
18	Texaco hired me back as a consultant for a
19	few years, and I went to various places, mainly Nigeria
20	and Angola. And then in 1984 I worked for Damson Oil
21	Corporation as an acquisition manager. Then I went
22	back on my own as a consultant, and I've worked as an
23	evaluation consultant since that time.
24	Q. As a consulting engineer, do you have any
25	particular area of specialization?

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1 Α. Possibly that would fall into waterflooding, 2 my main specialty. And have you been involved with waterflooding 3 0. in your employment with Texaco and as a consultant? 4 Yes, I have. I've been doing waterflooding. 5 Α. In fact, it goes back so far it's almost an 6 7 embarrassment. I was a member of the Oklahoma-Kansas Waterflood Association in 1946, and I wrote Texaco's 8 first computer program in waterflooding from styles 9 10 operations to 1957. I have been -- helped get the Salem Unit 11 flooded in 1952, and many other waterflooding units in 12 13 Oklahoma started in the early Fifties. Have you been called upon to teach courses on 14 0. 15 waterflooding? Yes, I have. I've written a manual for 16 Α. Texaco in the practical engineering aspects of 17 18 waterflooding. Are you a member of any professional 19 ο. 20 associations? I'm a member of the Society of 21 Α. Yes, I am. Petroleum Engineers, I'm a member also of the Society 22 23 of Petroleum Evaluation Engineers. I'm also a registered professional engineer in the State of Texas. 24 Are you familiar with the Applications filed 25 Q.

1	for Sirgo Operating, Inc., in each of the cases that
2	have now been called for hearing?
3	A. Yes.
4	Q. And are you familiar and have you made a
5	study of the general area in which the wells involved
6	in these Applications are located?
7	A. Yes, I have. I, in fact Sirgo had its
8	the East and West Pearl Queen Units evaluated. I
9	reviewed their evaluation for Pyramid Energy, and I
10	think it was on the basis of my review that Pyramid
11	purchased these units from Sirgo. I have looked at
12	most every electric log in the field, I've looked at
13	core analysis on some 30 wells, analyzed them very
14	carefully, and I feel very familiar with the fields.
15	Q. Are you prepared to make present exhibits
16	and make recommends to the Division?
17	A. Yes, I am.
18	MR. CARR: We tender Mr. Frick as an expert
19	in petroleum engineering.
20	EXAMINER STOGNER: Mr. Frick is so qualified.
21	Q. (By Mr. Carr) Now, Mr. Frick, would you
22	briefly state what Sirgo seeks with this Application?
23	A. Yes. Sirgo, in these Applications, we are
24	planning, Sirgo, through Pyramid Energy, as seeking to
25	drill five or possibly six wells in order to upgrade

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our evaluation of this area, in order to become more 1 definitive of the reserves and the economics of 2 redeveloping these two waterflood -- previous 3 4 waterflood units. And today you're seeking approval for three ο. 5 unorthodox locations for three of those wells? 6 Yes, we are. 7 Α. I think it would be helpful, Mr. Frick, if we 8 0. could start with some general background information 9 10 and if you could review generally the background of 11 these two units for Mr. Stogner, and in so doing if you 12 would refer to what has been marked as Sirgo Exhibit 13 Number 1. If you would identify that and then review the information on that exhibit. 14 Okay. Exhibit Number 1 is a map of the East 15 Α. 16 and West Pearl Queen Units that -- showing a boundary line between the two units, and it also shows in black, 17 it shows the previously drilled wells. And in red it 18 shows those planned development locations that may be 19 drilled as a result of our evaluation. 20 It's a general intent of redeveloping these 21 fields to go in and take this previously developed 22 area, that was developed on 40-acre spacing, and 23 redevelop it on 20-acre spacing, with each new red well 24 being a producing well, and the black wells, when 25

they're on standard location, make them injection 1 2 wells. Mr. Frick, what percent of the working-3 Q. interest ownership in each of the existing units is 4 owned now by Pyramid and operated by Sirgo? 5 It's -- To the best of my knowledge, what Α. 6 they've told me is that they own approximately 95 7 percent of the East Pearl Queen Unit and approximately 8 92 percent of the West Pearl Queen Unit. 9 And are they the operator of both of those 10 0. units? 11 That's correct. 12 Α. Let's review briefly the production history 13 0. from the unit, both what has been obtained through 14 primary production and through initial secondary. 15 16 Α. All right. In the East Pearl Queen Unit, it was originally discovered in 1956, and went through a 17 primary stage of development in which approximately 52 18 19 wells were drilled, and the peak production at that 20 period was in 1961. It started declining in production, and then 21 in 1964, Shell Oil Company formed the East Pearl Queen 22 23 Unit for the purpose of waterflooding. And they sold 24 this unit to Petrus on July the 1st of 1986, and Petrus 25 sold it to Sirgo on November the 1st, effectively

1 November the 1st, 1989.

2	During the primary phase, from 1961 through
3	1964, the trend showed that there is a primary
4	production of about 2,022,000 barrels of oil recovered.
5	The first secondary waterflood recovered an estimated
6	3,748,000 barrels of oil while they had it in
7	operation, and subsequent production records up until
8	this time.
9	The West Pearl Queen Unit was discovered in
10	1958, and it went through a primary development stage
11	and was unitized for waterflooding in 1964 by Gulf,
12	which was later Chevron, and Armstrong acquired this
13	from Gulf on May the 1st, 1987, and Sirgo acquired it
14	from Armstrong July the 1st, 1989.
15	During its initial phase, it recovered
16	2,551,000 barrels of primary oil, we think, and during
17	its first flood, waterflood secondary phase, it
18	recovered 4,445,000 barrels of oil.
19	It is the intent of Pyramid to redevelop
20	these fields, and we feel that in each unit over
21	2 million barrels of additional oil will be recovered,
22	and the total recovery will exceed over 4 million
23	barrels of oil.
24	I might also mention here that during this
25	redevelopment phase we will be closely watching the

1 records and the data and keeping abreast of enhanced oil recovery. We feel that this is a good candidate 2 for tertiary oil recovery at some not-too-distant 3 future date. 4 As part of this project, are certain lease 5 ο. line or protection wells going to need to be drilled 6 7 between the two existing units? 8 Α. Yes. Could you identify what has been marked as 9 Q. 10 Sirgo Exhibit Number 2, please? 11 Yes, it is a listing of wells that shows Α. 12 those wells that are going to be drilled very close to the lease lines between the East Pearl Queen Unit and 13 the West Pearl Queen Unit. That's a list of eight 14 15 wells. MR. CARR: Mr. Stogner, this is the exhibit 16 that has the error in it. If we go to the second well, 17 the Number 180, those numbers are not consistent with 18 19 what we had in our Application or what we are seeking here today. What is in the Application and what is in 20 21 the ad is correct, and instead of being 2563 feet from 22 the south line, it should be, as advertised, 2630 feet. 23 We also have a problem with the 192 well, which is the fourth well down, and again, the numbers 24 25 It should be 1330 feet from the south are wrong.

1	line That's what was advertised and 1330 feet
2	from the east line. That again is what was advertised.
3	EXAMINER STOGNER: Thank you, Mr. Carr.
4	MR. CARR: And then if we get down to the
5	Number 84 well, again that is the well that is the
6	subject of my initial Request for Amendment, and the
7	first number there should be 165, not 265.
8	Having rewritten the entire exhibit, we are
9	prepared to go forward with it.
10	MR. STAMETS: Excuse me. 265 is the correct
11	number, Bill.
12	MR. CARR: I'm sorry, I'm sorry. On the 84
13	Well, 265 is correct, that's right, and that is what we
14	said earlier. I'm sorry.
15	Q. (By Mr. Carr) Mr. Frick, would you identify
16	Exhibit Number 2, please?
17	A. It's a Again, it's a listing of the eight
18	wells that will be drilled real close to the lease
19	lines between the East Pearl and the West Pearl Queen
20	Units.
21	Q. And this includes all the wells, not just
22	those that are identified in today's hearing?
23	A. That's correct.
24	Q. All right.
25	A. It's a listing of eight wells.

Before we go into the percentages and the 1 0. drainage numbers in the center, I think it might be 2 helpful to go forward with the testimony and come back 3 to this. 4 5 Α. All right. So if you could at this time, could you go 6 0. through Exhibit Number 3 and identify that for Mr. 7 Stogner? 8 Exhibit Number 3 is a blowup of -- an 9 Α. 10 enlargement, I should say, of Exhibit Number 1, showing 11 the three wells that's on the lease lines, close to the 12 lease lines, and that are the subject of today's 13 hearing. And under the rules, these would need to be 14 0. back 330 feet from the lease line? 15 16 Α. That's my understanding. All right. Could you at this point in time 17 Q. simply explain why you need to go in and drill these 18 19 three additional wells? 20 Yes. We are going to use a five-spot pattern Α. 21 in our waterflood, and with this five-spot pattern we 22 need to have a producing well in the center of these 23 five spots in order to capture the oil that's lying in 24 this area. If we don't drill these wells, a considerable volume of oil will not be recovered. 25 In

fact, I estimate that each of these oil wells will 1 recover in excess of 50,000 barrels of oil. 2 Are you planning to utilize the data obtained 3 Q. from these wells to confirm your current engineering 4 analysis upon which you're basing your overall plans 5 for this project? 6 That's correct. We have the plan now that 7 Α. we're going to drill five or six wells, and we're going 8 to extensively log them, and we're going to core three 9 of them, we're going to test them, the productivity of 10 each of these wells under current conditions, and use 11 this data to upgrade the previous evaluation that we've 12 made, that this would be an economically viable thing 13 14 to do, to waterflood these two units and to recover additional oil. 15 16 Q. And located as these are on the boundary 17 between the units, will the information, in your opinion, be of value in confirming your analysis for 18 both of the -- what are now separate units? 19 20 Α. That's correct. I have made a careful study of the logs on core analysis, and it so happens that 21 the porosity of both the East Pearl and West Pearl 22 Units are almost identical. 23 Also, their water saturations are almost 24 identical. 25 The recovery on a per acre foot in the

17 1 previous floods is very close to the same, and I feel that the benefit obtained from these wells will be 2 applicable to both units. 3 0. Let's go now to what has been marked as Sirgo 4 Exhibit Number 4, and I would ask you to identify that 5 and review this for the Examiner. 6 This is a structure map of the -- based on 7 Α. the top of the Queen Formation, on -- that covers the 8 East and West Pearl Queen Units. 9 And I believe you've indicated from your 10 0. analysis that this is a fairly uniform reservoir? 11 Well, it's really a quite heterogeneous 12 Α. reservoir, but it's fairly uniform in its coverage of 13 the entire area in question. 14 Is the structure critical in terms of 15 0. implementing an effective waterflood in this area? 16 A. Not to my knowledge. It has -- The pay zones 17 18 are very similar regardless of whether they were --19 regardless of their structure, position. 20 Let's go now to Exhibit Number 5, and I'd ask 0. you to identify that, please. 21 22 Exhibit Number 5 is a type log of the area in Α. 23 question. It shows the top of the Queen Formation on 24 this log and also the top of the Penrose. In the 25 center column of this log, there's a 1 up near the top,

1 a 2 further down, a 3 and a 4 in the center of this log, identifying that there are four different pay 2 zones in this area that we are going to attempt to 3 redevelop and re-waterflood. 4 5 Each of these zones -- On average, they're encountered between about 4750 and 4900 feet in depth. 6 7 The top zone, zone number 1, is very thin. And in fact, it was overlooked by some of the first 8 early wells. It averages only about three foot thick, 9 10 in my opinion. And in zone number 2 there's on average, 11 throughout the whole area, about seven feet of oil pay 12 zone. 13 14 In zone 3 the average is about 14 feet, pay zone, and zone 4, about 11 feet, for a total of 35 feet 15 of oil pay sand in each well. 16 17 ο. And you intend to implement waterflooding in each of the four zones? 18 19 Α. That's correct. The zone number 1 may -- may 20 not be flooded in its entirety because of its thinness, but it's the intent to flood them if it at all can be 21 22 commercially accomplished. 23 0. Let's go back to Exhibit Number 2 now, and I'd ask you to review the conclusions you've reached 24 25 concerning drainage and counter-drainage along the

1 | boundary between these two units.

A. Yes, when I first looked at these units I realized that they had separate land -- royalty owners and that we needed to protect the correlative rights of all of the owners, as well as those of the workinginterest owners.

So we -- I went through the boundary line and noticed that there was exactly the eight wells to be drilled in the boundary, and I located, or had Sirgo actually -- I worked with Sirgo and had them locate four of those wells on the East Pearl Queen Unit and four of them on the West Pearl Queen Unit so that the drainage patterns would become compensatory.

They -- Each of these wells in their flood pattern will drain about 40 acres of each of the producers, on average, and in the center of Exhibit 2 I've listed a heading called Capture Percentage, and then under that I have West Pearl Queen Unit and East Pearl Queen Unit.

And from the location of the wells, like on 179, it can -- Normal drainage patterns, Well 179, 50 percent of the oil would be drained from the East Pearl Queen Unit and 50 percent from the West Pearl Queen Unit.

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And I went down all eight of these locations

and made the same observation, like on number 180. 1 If you'll look at the map on Well Number 180, three-2 fourths of that 40 acres around 180 lies in the West 3 Pearl Queen Unit, which is 75 percent of that 40. 4 And then 25 percent of it is from the East Pearl Queen 5 Unit. 6 And going through all eight of these wells, I 7 8 totaled them up and it comes out that each one of the wells will get 400 percent recovery from this area, and 9 10 on a per-well basis it would balance exactly. In other words -- or a drainage-area basis, the East Pearl Queen 11 Unit would get half of the oil, and the West Pearl 12 Queen Unit would be half of the oil. 13 I feel that right through this area that on 14 15 average the pay sand thicknesses on each unit are 16 approximately the same, and it would be -- their 17 correlative rights would be protected by locating the 18 wells in these positions. In your opinion, as a result of this proposed 19 Q. 20 redevelopment program, when it is fully implemented, 21 will drainage from each unit be compensated for by 22 drainage from the other unit involved? That's correct. 23 Α. 24 Q. In your opinion, will granting this 25 Application be in the best interest of conservation,

1 the prevention of waste and the protection of 2 correlative rights? Α. I do. 3 Was the BLM and State Land Office advised of Q. 4 this proposal? 5 I think this is the advice that we're giving 6 Α. them today, that this is my only knowledge that they 7 have been properly advised. 8 And, Mr. Frick, were Exhibits 1 through 5 9 Q. either prepared by you or compiled under your 10 direction? 11 They were either prepared by me or they 12 Α. were -- I studied them in enough detail that I feel 13 confident that they are representative of the facts. 14 So you can confirm their accuracy based on 15 Q. your review? 16 That's correct. 17 Α. MR. CARR: At this time, Mr. Stogner, I would 18 move the admission of Sirgo Exhibits 1 through 5. 19 EXAMINER STOGNER: Exhibits 1 through 5 will 20 21 be admitted into evidence. MR. CARR: And that concludes my direct 22 examination of Mr. Frick. 23 24 EXAMINER STOGNER: Mr. Carr, before we go any 25 further --

1 MR. CARR: Yes, sir. 2 EXAMINER STOGNER: -- a question on notification. I see that there was no mailed 3 notification because --4 MR. CARR: There was no mailed notification, 5 Mr. Frick. 6 7 Q. (By Mr. Carr) Who operates all acreage offsetting each of these proposed unorthodox locations? 8 9 Α. At this time Sirgo's operating on behalf of 10 Pyramid Energy Corporation. 11 0. And there are no other operators involved 12 that would offset either directly or diagonally any of these three wells? 13 To my knowledge, there is none. 14 Α. That's all I have. 15 MR. CARR: EXAMINATION 16 17 BY EXAMINER STOGNER: 18 0. Mr. Frick, earlier in your testimony -- I'm 19 going to refer back to Exhibit 1 -- you mentioned the 20 percentage that was owned by Pyramid was 92 percent in 21 the West Pearl Queen and 95 in the East Pearl Queen; is that correct? 22 23 Α. That's correct, my understanding. I have not 24 examined title; I just got this from our lawyer. 25 There are some outstanding interests in these

1 units that have not sold, but we are going to be the operator, with Sirgo being operator at this moment in 2 time, and we're stepping up to the be operator ourself. 3 Q. So you don't have a list of that five or 4 eight percent who have not -- that are still 5 outstanding? 6 7 Α. No, I do not. 8 **Q**. Have they bought this unit from Petrus, the 9 East Pearl Queen Unit was bought from Petrus? It's my understanding it was, yes, and that 10 Α. they sold to Sirgo last November. 11 And how about the West Pearl Queen Unit? 12 Q. Who did it belong to? 13 14 It belonged to Armstrong. Α. 15 Armstrong. Now, did they have outstanding 0. 16 owners at the same percentage, whenever Petrus and 17 Armstrong operated each unit? 18 I understand they did. Α. 19 EXAMINER STOGNER: Are there any other 20 questions of Mr. Frick? 21 I have no further questions. MR. CARR: 22 EXAMINER STOGNER: Does anybody else have 23 anything further? 24 I have a question. MS. HOWARTH: What 25 percentage of state land is held in each of these units

1 along this boundary line? EXAMINER STOGNER: Excuse me? 2 MS. HOWARTH: Do you know what percentage of 3 4 this is state lands along the boundary line? THE WITNESS: No, I don't, not along the 5 boundary line. I do know that the State of New Mexico 6 7 has royalty interest under about 44 percent of the East Pearl Queen Unit and about 92 percent of the West Pearl 8 Queen Unit, and that's -- But actually, right at the 9 10 boundary line, I'm not sure. 11 But the fact that the units have been formed, 12 that is about -- That's going to be their proportion of 13 royalty off of the units. The units are going to stay in existence as originally formed, and these are just 14 -- This is just a redevelopment or a second 15 waterflooding, if you want to say that, of the units. 16 17 EXAMINER STOGNER: Are there any other questions? 18 For the record, would you please state your 19 name? 20 21 MS. HOWARTH: My name is Susan Howarth, 22 H-o-w-a-r-t-h. I'm with the State Land Office, 23 petroleum engineer. 24 EXAMINER STOGNER: Okay, thank you. 25 Is there anything further in Cases Numbers

9920 or 9921? If not, both cases will be taken under advisement. And with that, hearing adjourned. (Thereupon, these proceedings were concluded at 3:14 p.m.) I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case Nos. 9920 and 9921 Moril 1990. heard by me_on__ 1mm, Examiner **Oil Conservation** Division

1	CERTIFICATE OF REPORTER
2	
3	STATE OF NEW MEXICO)
4) ss. County of Santa FE)
5	
6	I, Steven T. Brenner, Certified Shorthand
7	Reporter and Notary Public, HEREBY CERTIFY that the
8	foregoing transcript of proceedings before the Oil
9	Conservation Division was reported by me; that I
10	transcribed my notes; and that the foregoing is a true
11	and accurate record of the proceedings.
12	I FURTHER CERTIFY that I am not a relative or
13	employee of any of the parties or attorneys involved in
14	this matter and that I have no personal interest in the
15	final disposition of this matter.
16	WITNESS MY HAND AND SEAL April 28, 1990.
17	Huen Same
18	STEVEN T. BRENNER
19	CSR No. 106
20	My commission expires: October 14, 1990
21	My commission expires. Occober 14, 1990
22	
23	
24	
25	

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

CASE NO. 9921 ORDER NO. R-9165-A

APPLICATION OF SIRGO OPERATING, INC. FOR AN UNORTHODOX OIL WELL LOCATION, LEA COUNTY NEW MEXICO

NUNC PRO TUNC ORDER

<u>BY THE DIVISION</u>:

It appearing to the Division that Order No. R-9165 dated April 27, 1990, does not correctly state the intended order of the Division,

IT IS THEREFORE ORDERED THAT:

(1) Finding Paragraph No. 9 on page 2 of said Order No. R-9165 be and the same is hereby amended to read as follows:

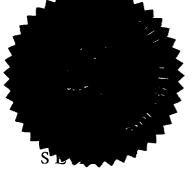
"(9) The applicant proposes to ultimately drill a total of eight producing wells along the boundary of both Units and the locations of all eight wells, as proposed by the applicant, will be such that compensatory drainage between both Units will result."

(2) Decretory Paragraph No. 2 on page 3 of said Order No. R-9165 be and the same is hereby amended to read as follows:

"(3) To assure that compensatory drainage is occurring between both the East and West Pearl Queen Units this case may be reopened in May, 1991 if all eight proposed Unit boundary producing wells have not been completed or are not being drilled."

(3) The corrections set forth in this order be entered <u>nunc pro tunc</u> as of April 27, 1990.

DONE at Santa Fe, New Mexico, on this 4th day of May, 1990.



STATE OF NEW MEXICO OIL CONSERVATION DIVISION

Le May by David Catanut Welliam ,

WILLIAM J. LEMAY Director

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 9921 ORDER NO. R-9165

APPLICATION OF SIRGO OPERATING, INC. FOR TWO UNORTHODOX OIL WELL LOCATIONS, LEA COUNTY, NEW MEXICO

ORDER OF THE DIVISION

<u>BY THE DIVISION</u>:

This cause came on for hearing at 8:15 a.m. on April 18, 1990, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this <u>27th</u> day of April, 1990, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) At the time of the hearing, this case was consolidated with Division Case No. 9920 for the purpose of testimony.

(3) The applicant, Sirgo Operating, Inc., seeks approval of two unorthodox oil well locations for the purpose of completing an efficient injection/production pattern within the West Pearl-Queen Unit Waterflood Project:

a) the West Pearl-Queen Unit Well No. 180 to be drilled 2630 feet from the South and West lines (Unit K); and b) the West Pearl-Queen Unit Well No. 192 to be drilled 1330 feet from the South and East lines (Unit J).

Both in Section 28, Township 19 South, Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

(4) The West Pearl-Queen Unit Well No. 180 is to be dedicated to an existing 40-acre oil spacing and proration unit comprising the NE/4 SW/4 of said Section 28, which is presently dedicated to the West Pearl-Queen Unit Well No. 121 located at a standard oil well location pursuant to General Rule 104.F.I., 1980 feet from the South and West lines (Unit K) of said Section 28.

(5) The West Pearl-Queen Unit Well No. 192 is to be dedicated to the NW/4 SE/4 of said Section 28, which has located thereon the West Pearl-Queen Unit Well No. 122 located 1980 feet from the South and East lines (Unit J) of said Section 28, which is presently being utilized as a water injection well for said project.

(6) Both 40-acre tracts are within the West Pearl-Queen Unit Waterflood Project Area, now owned by Pyramid Energy, Inc. and operated by the applicant, and are therefore governed by the special operating provisions for said project, as promulgated by Division Order No. R-2729, as amended, which provides for additional wells at unorthodox infill locations as may be necessary to complete an efficient injection/production pattern, provided however that said wells are drilled no closer than 990 feet to the outer boundary of the West Pearl-Queen Unit.

(7) In said Section 28 the West Pearl-Queen Unit includes the W/2, W/2 SE/4, and SE/4 SE/4; also included in the remainder of said Section 28 is the East Pearl-Queen Unit, which is owned by Pyramid Energy, Inc. and operated by the applicant, but with different interest ownership, and also being waterflooded in the same manner as the West Pearl-Queen Unit Waterflood Project.

(8) Both of the subject wells will serve to complete a more efficient injection/production pattern between the two projects.

(9) Since both wells are located on the boundary between both waterflood projects and the location of both are at places where said boundary line forms a right angle, the applicant proposes to allocate production equitable between both units whereby 75% of each well's production will be allocated to the West Pearl-Queen Unit and 25% to the East Pearl-Queen Unit.

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(10) No interested party appeared and/or objected to the proposed unorthodox locations.

(11) Approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the affected pool, is in the best interests of conservation and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Sirgo Operating, Inc. for two unorthodox infill oil well locations in Section 28, Township 19 South, Range 35 East, West Pearl-Queen Unit Waterflood Project Area, Pearl-Queen Pool, Lea County, New Mexico, is hereby approved as follows:

- a) the West Pearl-Queen Unit Well No. 180 to be drilled 2630 feet from the South and West lines (Unit K), said well to be dedicated to an existing 40-acre oil spacing and proration unit comprising the NE/4 SW/4 of said Section 28, which is presently dedicated to the applicant's West Pearl-Queen Unit Well No. 121 located 1980 feet from the South and West lines; and
- b) the West Pearl-Queen Unit Well No. 192 to be drilled 1330 feet from the South and East lines (Unit J) to be dedicated to the NW/4 SE/4 of said Section 28 forming a standard 40-acre oil spacing and proration unit for said pool.

(2) Seventy-five percent of the hydrocarbon production from both of the subject wells shall be allocated to the West Pearl-Queen Unit and twenty-five percent to the East Pearl-Queen Unit.

(3) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO OIL CONSERVATION DIVISION 0 WILLIAM J. LEMA Director